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## HEURISTIC LOT-SIZING AND SEQUENCING RULES IN A MULTISTAGE PRODUCTION-INVENTORY SYSTEM

JR Biggs - *Decision Sciences*, 1979 - Blackwell Synergy

... production-inventory system using Material Requirements Planning (MRP ... Materials flow upward, either directly from lower ... to use the net requirements schedule of ...

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## The capacitated lot sizing problem: a review of models and algorithms - all 3 versions »

B Karimi, SMT Fatemi Ghomi, JM Wilson - *Omega*, 2003 - Elsevier

... In particular, they discussed hierarchical planning, material requirement(s) planning ... items and the whole planning horizon ... number of period requirements which a ...

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## ... based mrp: an integrated approach to production scheduling and material requirements planning

N Hastings - *Journal of the Operational Research Society*, 1982 - JSTOR

... with a specific product (or end-item) lot, or customer ... produced for different end items; (c) batch splitting; (d ... ORLICKY (1975) Material Requirements Planning. ...

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## Optimization approximations for capacity constrained material requirements planning - all 3 versions »

AP Clark - *International Journal of Production Economics*, 2003 - Elsevier

... 1998) have presented lot-sizing models ... retaining explicit modelling of setup sequencing. ... model, called capacitated material requirements planning (CMRP), is ...

Cited by 11 - Related Articles - Web Search

## REPETITIVE LOTS: FLOW-TIME REDUCTIONS THROUGH SEQUENCING AND DYNAMIC BATCH SIZING

FR Jacobs, DJ Bragg - *Decision Sciences*, 1988 - Blackwell Synergy

... of small lot production without requiring capacity increases ... control system such as material requirements planning (MRP ... does not alter the release-batch quantity ...

Cited by 58 - Related Articles - Web Search

## Planning and scheduling in the process industry - all 2 versions »

J Kallrath - *OR Spectrum*, 2002 - Springer

... be classified as raw materials,intermediates,finished ... Minimum production requirements: Minimum utilization ... batch and campaign planning, – scheduling problems ...

Cited by 67 - Related Articles - Web Search

## Computationally Efficient Optimal Solutions to the Lot-Sizing Problem in Multistage Assembly Systems

P Afentakis, B Gavish, U Karmarkar - *Management Science*, 1984 - JSTOR

... at each node whenever a batch is ordered or ... A Study of Multiple Level Lot Sizing Techniques for Material Requirements Planning Systems," Unpublished ...

Cited by 96 - Related Articles - Web Search

## [PDF] Capacitated Materials Requirements Planning and its Application in the Process Industries - all 3 versions »

EW Schuster, SJ Allen, MP D'itri - *Journal of Business Logistics*, 2000 - middatacenter.org

... to bills of material, a complete run of the ... The JLM (first level of the planning system) determines ... then uses these recipes to calculate requirements for grape ...  
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A genetic algorithm to solve the general multi-level lot-sizing problem with time-varying costs - all 3 versions »

N Dellaert, J Jeunet, N Jonard - International Journal of Production Economics, 2000 - Elsevier

... Genetic material is swapped between two chromosomes to produce a ...  $t^*$  randomly selected  
in the planning horizon ... the stream of positive net requirements dates {t 5 ...}

Cited by 33 - Related Articles - Web Search

[PDF] A survey of lot-sizing and scheduling models

AT Stagemeier, AR Clark - SIMPÓSIO BRASILEIRO DE PESQUISA OPERACIONAL, 2001 - cems.uwe.ac.uk

... times that can be fixed, or vary by product or be sequence-dependent ... The lot-sizing

problem arises as part of MRP (Material Requirement Planning) logic ([3 ...

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Key authors: P Billington - H Tempelmeier - J McClain - L Thomas - B Karimi

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